

## Marine Corps Air Station Yuma Energy Program

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MCAS Yuma has implemented an aggressive energy program over the past 20 years. MCAS Yuma Energy Program has received numerous Department of the Navy, Department of Energy and even a Presidential award in 2006 for accomplishments in energy conservation. In fiscal year 2009, there were (6) solar projects awarded or constructed on the installation and (1) project for Geothermal Exploration.

Project (1) utilized funding from DESC to construct a 7 KW solar electric vehicle charging station including a fast fill Compressed Natural Gas (CNG) refueling station at our motor transportation facility on the Main Air Station. This project was completed in Dec 08 and is operational as designed.

Project (2) was a Department of Defense (DOD) demonstration project to install a Building Integrated Photovoltaic (BIPV) system on our Environmental facility. The BIPV roof utilizes “Cool Roof” technology to insulate the building envelope while producing 20 KW of renewable energy. This project continues to be monitored by the Naval Facilities Engineering Service Center (NFESC) to quantify results. Project was installed in May 2009 and is operational as designed.

Project (3 & 4) was a centrally funded project through Headquarters Marine Corps to install 16 KW solar PV systems on (2) existing sunshade structures for a total of 32 KW. This project utilized “Thin Film” technology as the renewable energy source and is operating as designed. Project was completed in Aug 09.

Project (5) was an ARRA funded project, this project installed 32 KW of solar panels on an existing sunshade storage facility. The project was completed in Feb 2010 and is operating as designed.

Project (6) was a Headquarters Marine Corps centrally funded project to install 38KW of solar PV on the roof of a water plant clear well. The clear well stores potable water prior to being disseminated through the water distribution system. The project is currently under construction with the expected completion date of May 2010.

The Air Station is currently performing Geothermal Exploration within the Chocolate Mountain Aerial Gunnery Range in Niland California looking for Geothermal potential. Drilling continues and is expected to be completed in May 2010, after completion of the test holes they will be evaluated for geothermal potential.

Marine Corps Air Station recognizes the importance of energy conservation as a means of protecting our limited natural resources, and is committed to ensure we meet out established energy goals.